

# AVERATEC

User's Manual

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## *Preface*

### **Using This Manual**

This User's Manual contains general information about the hardware and software setup, troubleshooting, and technical specifications of the notebook computer.

### **Symbols and Conventions**

The following conventions and symbols are used in this manual:

- When keys are to be pressed at the same time, a plus (+) symbol is used. For instance, Fn+F7 means holding Fn and F7 keys at the same time.
- When a series of clicking actions is needed in Windows O/S, [ ] and > symbols are used. For instance, [Start > Settings > Control Panel > Display] means clicking the Start icon first, then the Settings, then the Control Panel, then the Display icon.
- When you need to make a selection with the touch pad (or mouse), you will be asked to 'select' or 'click' or 'double-click', 'right-click' the item.



**Note:** Text in this format and symbol means specific instructions, commentary, sidelights, or any additional information or notes that you should be aware of.

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**Warning:** Text in this format and symbol means that failures to comply with the given instructions or information could result in damage to your computer or could cause bodily harm or loss of life.

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## Protecting Your Computer - Avoid Abusive Handling and Adverse Environment

Following the advice below will help ensure that you get the most out of your Investment.

Your computer will serve you well if you take good care of it.

- Do not expose the computer to direct sunlight or place it near sources of heat.
- Do not subject it to temperatures below 0°C (32°F) or above 30°C (86°F).
- Do not expose the computer to magnetic fields.
- Do not expose the computer to moisture or rain.
- Do not spill water or liquid on the computer.
- Do not subject the computer to adverse shock and vibration.
- Do not expose the computer to dust and dirt.
- Do not place heavy objects on top of the computer.
- Do not place the computer on rocky surfaces.

Here are some ways of taking care of your AC adapter.

- Do not connect the adapter to any devices other than your computer.
- Do not let water get into the adapter.
- Do not block the ventilation airway of the adapter.
- Keep the adapter in a cool and ventilated place.
- Do not step on the power cord or place heavy objects on top of it.
- Carefully tuck away the power cord and any cables away from pedestrian traffic.
- When unplugging the power cord, do not pull on the cord itself but pull on the plug.
- Keep the adapter away from children.
- The total ampere ratings of the equipment plugged in should not exceed the ampere rating of the cord if you are using an extension cord.
- The total current rating of all equipment plugged into a single wall outlet should not exceed the fuse rating.
- Do not connect other AC adapters to your notebook. This Notebook uses exclusively the AC adapter: Liteon PA-1650-01 (65W)

When cleaning the computer, observe these steps:

1. Power off the computer and remove the battery pack.
2. Disconnect the AC adapter.
3. Use a soft cloth dampened with water. Do not use liquid or aerosol cleaners.

Contact your dealer or see your service technician if any of the following occurs:

- Computer has been dropped or the body has been damaged.
- Liquid has been spilled into the product.
- The computer does not operate normally.

Cleaning the Ventilation Grills:

It is suggested that you clean the ventilation grills regularly to maintain optimal thermal regulation of the notebook. To do this, you may use a soft brush or a vacuum cleaner (with appropriate head adapter) to remove the dust buildup on the ventilation grills.

## **Chapter Summaries**

The following is a summary of the available chapters and appendices in this manual.

### Chapter 1: Getting to Know the Basics

In this chapter, you will learn the basic operations and features of your computer. It gives you a general understanding of the components of your computer.

### Chapter 2: BIOS Setup / Security

In this chapter, you will learn how to change various firmware settings and what the settings mean. Also, you will learn how to take advantage of the built-in security feature provided by the BIOS.

### Chapter 3: Battery Power & Power Management

In this chapter, you will learn the fundamentals of power management and how to use them to achieve longer battery life.

### Chapter 4: Upgrading Your Computer

In this chapter, you will learn how to upgrade the system memory.

### Chapter 5: Trouble-Shooting

In this chapter, you will learn how to solve common hardware and software problems.

### Appendix A: Product Specification

In this section, you will find a list of the computer's system specifications.

### Appendix B: Agency Regulatory Notices

In this section, you will find the general electro-magnetic and safety regulatory information.

# C H A P T E R O N E

## GETTING TO KNOW THE BASICS

This chapter introduces the features and components of the computer.



## Performance Features

### ■ High Performance AMD Processor

The notebook PC is equipped with a powerful Mobile AMD Sempron or Turion64™ processor. Together with the latest system chipset and technologies, this notebook offers advanced PC performance.

### ■ Advanced Graphics Engine

The integrated 2D/3D graphics engine offers excellent video performance for the most demanding professional. DirectX 9 graphics capability also adds realism to PC games.

### ■ AveraBrite™ LCD Display

The computer is equipped with a wide 13.3" TFT high-resolution display panel for clear text and brilliant colors.

### ■ Expandability

The system offers 2 upgradeable DDR SDRAM sockets for expansion, allowing the user to easily increase the system's capacity as the need arises.

### ■ Built-in Multiple Card Reader

There is a built-in 4-in-1 card reader to access many of the portable media formats (SD Card, MMC Card, MS and MS Pro Card).

### ■ Ethernet Port

The system provides a built-in Ethernet network adapter for high bandwidth network connection.

### ■ FireWire (IEEE1394 / 1394a) and USB 2.0 ports

This computer offers IEEE1394 for ultra high-speed connection to high bandwidth digital video devices and USB2.0 ports to connect to any USB-based peripheral device.

### ■ Wireless LAN

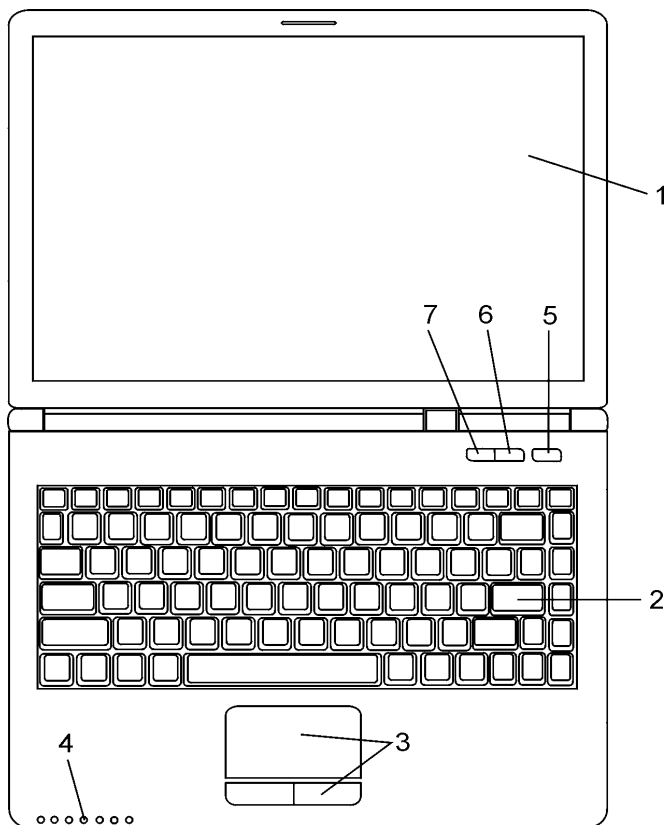
The integrated Wireless LAN module allows your notebook to connect wirelessly to other 802.11b/g-enabled computers, devices or networks.

### ■ Windows Media® Player Quick Launch

One button lets you play movies, or music by quickly launching Windows Media® Player from Windows XP.

## System At A Glance

### Top View



**1. AveraBrite™ LCD Display**

The panel is where the system content is displayed.

**2. Keyboard**

The keyboard is used to enter data. It has an embedded numeric keypad and cursor control keys. (See Keyboard Section for details.)

**3. Touch Pad**

The touch pad is a built-in pointing device with functions similar to a mouse.

**4. LED Status Indicator**

The LED Status indicators reveal the status of these functions: Numeric keypad, cap lock, scroll lock, WLAN, ODD and HDD. (See the LED Status Indicator Section for details.)

The LED Status indicators also reveal the status of the system power state and battery-charging state. See the LED Status Indicator Section for details.

**5. Power / Suspend Button**

The power/suspend button turns the notebook on and off and it also acts as a system standby key. Press momentarily to turn on the system. Press and hold for at least 4 seconds to turn off the system. How this key behaves can be defined in [Start > Settings > Control Panel > Performance and Maintenance >

Power Options > Advanced] menu. Press the power / suspend button again to return from the suspend mode. (See Chapter 3 for more details on system suspend function.)

#### 6. Battery Saver Mode Button

Pressing the key enables the system to lower its power usage; therefore the fan speed is reduced to achieve the lowest operating noise.

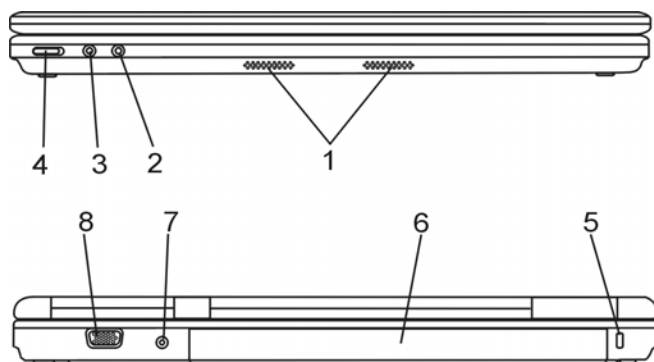
You may need to go to BIOS Setup to enable Battery Saver Mode for this button. See Chapter 2 for details.

#### 7. Windows Media® Player Launch Key

Pressing the key launches a multimedia application that allows you to watch DVD movies or listen to music from the optical or hard drive and media reader.

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#### Front and Rear Views



**Warning:** Do not place any heavy objects on the top of notebook. This may damage the display

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#### 1. Built-in Stereo Speakers

The built-in speakers output the sound in stereo.

#### 2. Microphone Jack

The microphone jack (3.5-mm diameter) is where you connect a microphone.

#### 3. Stereo Headphone

The stereo headphone jack (3.5-mm diameter) is where you connect the headphones or external speakers.

#### 4. Wireless On/Off Switch

Use the Switch to disable or enable the Wireless function.

#### 5. Kensington Lock Key Hole

A Kensington-type security lock latches to this keyhole for anti-theft purpose.

#### 6. Battery Pack

The battery pack is a built-in power source for the notebook.

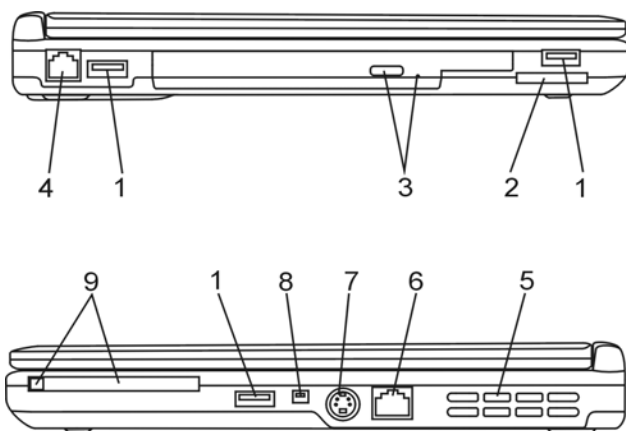
#### 7. Power Jack (DC-in)

The DC-out jack of the AC Adapter connects here and powers the computer.

#### 8. External VGA Port

The VGA video output port is for connecting the external LCD monitor or projector.

### Side Views



**Warning:** Do not place any heavy objects on the top of notebook. This may damage the display

#### 1. USB 2.0 Port (x3)

The Universal Serial Bus (USB2.0-compliant) port allows you to connect a wide variety of devices to your computer at a rate of up to 480 Mbps. This port conforms to the latest USB2.0 plug-and-play standards.

#### 2. 4-in-1 Card Reader

The 4-in-1 Card Reader supports SD Card, MMC Card, MS and MS Pro Card.

#### 3. Optical Drive and Disk Eject Button and Manual Eject Key Hole

Your computer comes with a Combo DVD+CD-RW or DVD Burner. Press the eject button to eject the disk tray. The manual eject keyhole allows you to manually eject a jammed disk.

#### 4. Modem Port

This is where you plug the phone jack (RJ-11) for fax/modem functions.

#### 5. Ventilation Grill

The fan grill is where air is exchanged to dissipate the internal heat. Do not block this airway.

## 6. Ethernet / LAN Port

The port connects to a network hub via the RJ-45 cable and also conforms to the 10/100Base-TX transmission protocol.

## 7. TV (S-Video) Port

The S-Video port permits you to redirect the screen output to a television set or any analog video playback device. This TV Port is copyright protected. When a DVD movie is played, the output is scrambled to prevent analog recording.

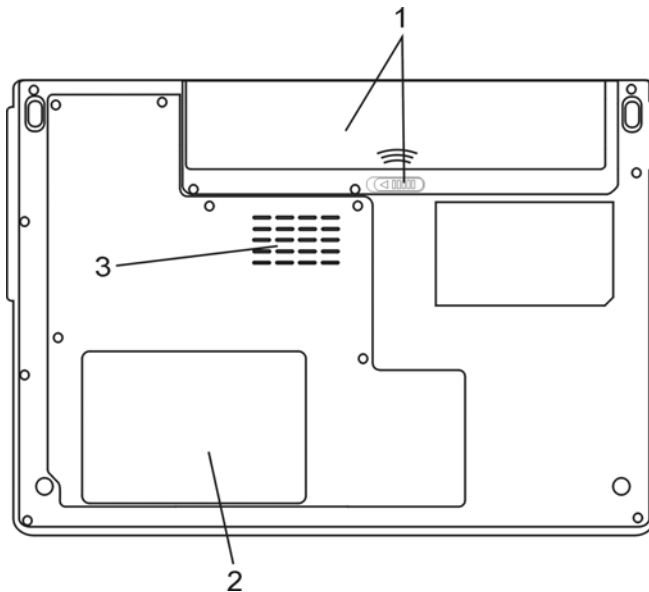
## 8. FireWire / IEEE1394 / 1394a Port

This is a high-speed serial data port. You may connect any FireWire-ready device to this port.

## 9. PC Card Slot (Type II PCMCIA) and Card Eject Button

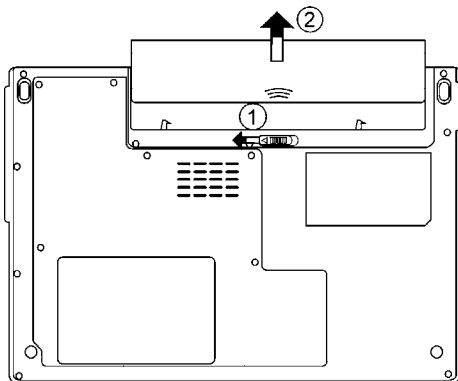
The slot is where a PC Card (Type II PCMCIA) is inserted. Press the eject button to release the PC Card.

### Bottom View



## 1. Battery Pack and Battery Latch

The battery pack is a built-in power source for the notebook. Slide the battery latch to release the battery pack.



## 2. System Device Cover

The system's processor with cooler assembly, Wireless LAN module, HDD and memory module are located under the case cover. The system memory can be upgraded to a larger capacity. (See Chapter 4 for instructions on a memory upgrade.)

## 3. Ventilation Grill

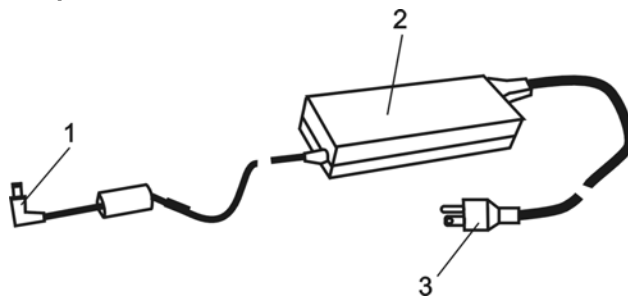
The fan grill is where air is exchanged to dissipate the internal heat. Do not block this airway.



**Warning:** Do not block the Fan Grill outlet. Place the machine on hard surface only. The bottom case may get hot.

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## AC Adapter



### 1. DC-out Connector

The DC-out connector docks to the power jack (DC-in) on the computer.

### 2. Adapter

The adapter converts alternating current into constant DC voltage for the computer.

### 3. AC Plug

The AC plug to the AC wall outlet.










**Warning:** Make sure you are using a standard 2-prong AC wall socket with a ground pin. If not, you may feel a slight tingling sensation on any of the computer's metal parts such as the I/O ports. This is caused by leakage current when the AC adapter is not properly grounded (via the ground pin). However, the amount of leakage current is within the safety regulation and is not harmful to the human body.

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## LED Status Indicator









The LED Status Indicator displays the operating status of your notebook. When a certain function is enabled, an LED will light up. The following section describes its indication.

### System & Power Status Indicators

LED Symbol	Graphic	Indication
		Blue light indicates the notebook is ON. Blinking blue light indicates the notebook is in suspend mode.
		Orange light indicates the battery is being charged. Blinking orange light indicates the battery level is low. Green light indicates the battery is fully charged.
		Blue light indicates the WLAN module is active.
		Green light indicates the hard drive and/or optical drive is being accessed.
		Green light indicates the numeric keypad is activated.
		Green light indicates the cap-lock is activated.
		Green light indicates the Battery Saver mode is enabled.

## Keyboard Features

### Function Keys (Quick Keys)

Graphic Symbol	Action	System Control
	Fn + F3	Turns off the LCD backlight.
	Fn + F4	Enters Suspend Mode.
	Fn + F5	Changes Display Mode: LCD-only, CRT-only and LCD&CRT.
	Fn + F6	Decreases Display Brightness.
	Fn + F7	Increases Display Brightness.
	Fn + F8	Turns Speaker Volume down.
	Fn + F9	Turns Speaker Volume up.
	Fn + F10	Turns off the Speaker Volume.
	Fn + Num Lk	Enables the embedded keypad to work in numeric mode. The keys act like numeric keypads in a calculator. Use this mode when you need to do a lot of numeric data entry. An alternative would be to connect an external numeric keypad.
	Fn + Scr Lk	Press the Scroll Lock key and then press ↑ or ↓ to move one line up or down.

For various system controls, press the Fn (Function) key and the Fx key simultaneously.



## Windows Keys

Your keyboard also has two Windows keys:



1. Start Key

This key allows you to pull up the Windows Start Menu at the bottom of the taskbar.



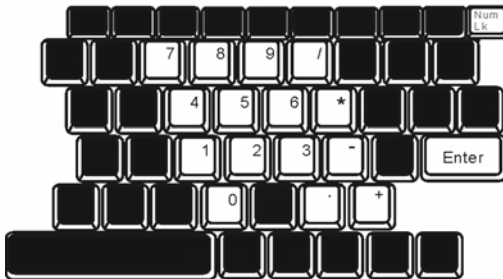
2. Application Menu Key

This key brings up the popup menu for the application, similar to a click of the right mouse button.

## Embedded Numeric Keypad

Press Fn+NumLk to enable the embedded numeric keypad. The numbers are printed in the upper right corner of a key, in a color different from the alphabets. This key pad is complete with arithmetic operators (+, -, \*, /).

Press Fn+NumLk to revert to normal character keys.



## Touch Pad

The built-in touch pad, which is a PS/2-compatible pointing device, senses movement on its surface. As you move your fingertip on the surface of the pad, the cursor responds accordingly.

The following items teach you how to use the touch pad:

1. Move your finger across the touch pad to move the cursor.
2. Press buttons to select or execute functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touch pad twice is similar to clicking the left button of a mouse.

Function	Left Button	Right Button	Equivalent Tapping Action
Execution	Click twice quickly		Tap twice (at the same speed as double-clicking the mouse button)
Selection	Click once		Tap once
Drag	Click and hold to drag the cursor		Tap twice quickly and on the second tap hold finger to the touch pad to drag the cursor
Access Context Menu		Click once	

Tips on Using the Touch Pad:

1. The double-click speed is timed. If you double-click too slowly, your notebook responds as if you single-clicked twice.
2. Keep your fingers dry and clean when using the touch pad. Also keep the surface of touch pad clean and dry to prolong its life.
3. The touch pad is sensitive to finger movements. Hence, the lighter the touch, the better the response. Heavy touch does not produce better response.

## Graphic Subsystem

Your computer uses a high performance 13.3" active matrix TFT panel with high resolution for comfortable viewing.

### Adjusting the Display Brightness

The notebook uses special key combinations, called hot keys, to control brightness.

Press Fn+F7 to increase the brightness.

Press Fn+F6 to decrease the brightness.



**Note:** To maximize your battery operating time, set the brightness to the lowest comfortable setting, so that the internal backlight uses less power.

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### Extending the Life of the TFT Display Device

Observe the following guidelines to maximize the life of the backlight in the display.

1. Set the brightness to the lowest comfortable setting (Fn+F6).
2. When working at your desk, connect your notebook to an external monitor and disable the internal display Fn+ F5.
3. Do not disable the suspend time-outs.
4. If you are using AC power and have no external monitor attached, change to suspend mode when not in use.

### Opening and Closing the Display Panel

To open the display, lift up the lid. Then tilt it to a comfortable viewing position.

To close the display cover, fold it down gently until the LCD is in the close position.



**Warning:** To avoid damaging the display, do not slam it when closing. Do not place any object on top of the computer when the display is closed

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## Audio Subsystem

Your computer's audio subsystem is Sound Blaster Pro-compatible.

### Adjusting the Volume Manually

To increase the volume, press Fn+F9.

To decrease the volume, press Fn+F8.

### Adjusting the Audio Volume in Windows

1. Click the speaker symbol in the task tray in Windows.
2. Drag the volume control bar up or down to adjust the volume.
3. To temporarily silence the speaker without changing the volume setting, click Mute.

### Voice Recording

You will need to plug-in an external microphone to the microphone connector to record sound. You will need to use audio processing software to enable the built-in microphone. For example, you may use Microsoft Sound Recorder.

## Modem

Your computer comes with a 56K V.92 internal fax/modem and a phone jack (RJ-11), which is located on the left side of your computer. Use a telephone cable to connect the computer to the telephone wall outlet.

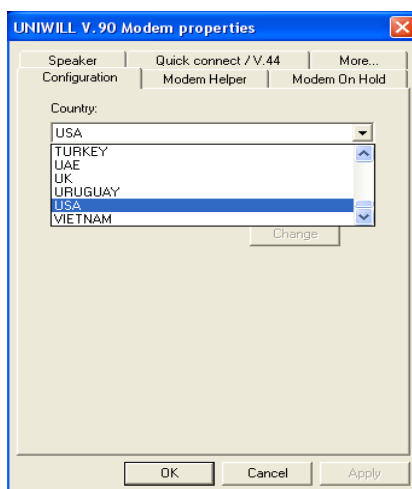
### Connecting the Modem

1. Plug one end of the phone line into the modem port located on the rear side of the computer.
2. Plug the other end of the line into the analog phone wall outlet.

Depending on where your computer is used, you may need to change settings in the modem. The correct setting will allow you to maintain a stable connection in a country where its telecommunication system may be different to others.

### To change the modem setting, do the following:

1. Go to [Start > Settings > Control Panel > Printers and Other Hardware] and double-click on Phone and Modem Options icon. You will see a similar dialog box.



2. Click on the pull-down menu and select the country where it is applicable. Click on OK to exit.

## Ethernet

Your computer is equipped with a 10/100Base-TX Fast Ethernet network adapter. Connect the active LAN cable to the RJ-45 LAN port located on the right side of the computer. This allows you to access and transmit data in the local area network.

### Connecting to the Network

Use Unshielded Twisted Pair (UTP) Ethernet cable only.

1. Insert one end of the UTP cable into the network connector until the connector snaps securely into the receptacle.
2. Either connect the other end of the cable to an RJ-45 jack wall outlet or to an RJ-45 port on a UTP concentrator or hub in the network.

### Cabling Restriction for Networks

The following restrictions should be observed for 100BASE-TX networks:

- The maximum cable run length is 100 meters(m) (328 feet[ft]).
- For 100-Mbps operations, use Category 5 wiring and connections.



**Note:** Consult a network administrator or the online Windows XP user's guide for assistance in setting up and configuring your network.

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# C H A P T E R T W O

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## BIOS SETUP AND SECURITY FEATURE

In this chapter, you will learn how to enter the BIOS Setup Menu and manipulate various hardware control settings. You will also learn how to use the built-in security features.

The Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Output System). It runs and maintains a variety of hardware functions. It is a menu-driven software, which allows you to easily configure and change the settings.

The BIOS contains the manufacturer's default settings for the computer's standard operations. However, there are occasions when you may be required to modify the default settings in the BIOS. For example, you may need to configure the BIOS power management (APM) settings if you are using DOS, or a non-Windows operating system.

The BIOS allows you to set up passwords to limit access to users. This is an important feature because a great deal of vital information is carried within the computer nowadays. Unauthorized access can be prevented. Later in this chapter, you will learn how to use this security feature.



## Entering the BIOS Setup Screen

First turn on the power. When the BIOS performs the POST (Power-On Self Test), press the F2 key quickly to activate the BIOS Setup Utility.



**Note:** You may need to press F2 key fairly quickly. Once the system begins to load Windows, you may have to retry by rebooting the computer

## Leaving the BIOS Setup Screen

When you have finished modifying the BIOS settings, exit the BIOS. It takes a few seconds to record changes in the CMOS.

## BIOS Action Keys

Function Key	Command	Description
ESC	Exit	Leaves a sub-menu to return to the previous menu OR exits the BIOS setup while saving changes.
Enter	Go to Sub Screen	Shows the Sub Menu
F1	General Help	Shows the Help Screen
F10	Save and Exit	Saves changes and reboots the computer.
<Tab>	Select a field	Selects the next field.
↑	Select an item	Selects the next upper item.
↓	Select an item	Selects the next lower item.
-	Lower value	Selects the next value within a field.
+	Higher value	Selects the next value within a field.

## Modifying the BIOS Settings

The AMIBIOS setup main menu is subdivided into sub-menus. Each menu item is described in this section.

### Main Setup

Under this menu, you may change time/date and view basic processor and system memory information.

Item	Selections / Sub-menu	Description
Date	N/A	Type in the current date, in MM/DD/YY format.
Time	N/A	Type in the current date, in HH:MM:SS format.

### Advanced Setup

#### ► IDE Configuration

Item	Selections / Sub-menu	Description
Primary IDE Master	Hard Disk	Primary Master is where BIOS tries to boot from first. The primary master controls the hard drive.
Secondary IDE Master	ATAPI CDROM	The secondary master controls the ATAPI CD-ROM drive.



**Note:** The sub-menu is not selectable. Press enter to view information for the storage device.

Item	Selections / Sub-menu	Description
Touch Pad Support	Enable Disable	Select support for Touch Pad
Share Memory	32MB 64MB 128MB	32MB 64MB 128MB
LCD Auto DIMM Function	Enable Disable	[Enable]: The system automatically reduces the LCD brightness when AC power is removed to save power. [Disable]: The LCD brightness remains the same whether or not AC power is present.

LCD Backlight Saver	Enable Disable	[Enable]: The system automatically reduces the LCD brightness when AC power is removed and when the keyboard or touchpad has been idle for more than 10 minutes. [Disable]: The LCD Backlight Saver function is disabled.
Bootup Beep	Enable Disable	Setting Bootup Beep Sound on/off

## Boot Setup

### ► Boot Settings Configuration

Item	Selections / Sub-menu	Description
Quiet Boot	Disabled Enabled	[Enable]: The system will display OEM logo instead of the POST messages. [Disable]: The system will display POST messages (i.e. devices information.)

### ► Boot Device Priority

Item	Selections / Sub-menu	Description
1st Boot Device	Removable Dev. CD/DVD Hard Drive Realtek Boot Agent Disabled	Set the type of device for the 1st drive BIOS attempts to boot from. If Realtek Boot Agent is selected, system will attempt to load boot sector from the Ethernet port.
2nd Boot Device		Set the type of device for the 2nd drive BIOS attempts to boot from.
3rd Boot Device		Set the type of device for the 3rd drive BIOS attempts to boot from.
4th Boot Device		Set the type of device for the 4th drive BIOS attempts to boot from.

**Note:** If you select Realtek Boot Agent, the system will attempt to boot from the network.

**Note:** When the BIOS performs POST, you may also press F12 Key to enable the Boot Device selection menu. You may choose CD/DVD, Hard Drive, or Realtek Boot Agent as the first storage device to boot from. If you have already connected a USB Floppy Disk Drive before powering up, it will appear as a Removable Device in the Boot Device selection menu

## Security Setup

### ► Boot Settings Configuration

Item	Selections / Sub-menu	Description
Change Supervisor Password	N/A	Install or Change the Password
Change User Password	N/A	Install or Change the Password

### Using Password Protection

Two Levels of Password Protection are available. The BIOS provides both a Supervisor and a User password. If you try to activate both passwords, the Supervisor password must be set first.

The passwords activate two different levels of protection:

1. System always asks for password every time it is powered on.
2. System asks for password only when you attempt to enter BIOS utility.

The passwords are encrypted and stored in NVRAM. Make sure you write them down or memorize them. If you lose the passwords, the computer may need to be sent back to the factory or to an authorized service dealer to reset the passwords.

## Power Setup

Item	Selections / Sub-menu	Description
Power Button Mode	On/Off Suspend	[On/Off]: When the power button is pressed, the system is turned off. [Suspend]: When the power button is pressed, the system enters the suspend mode.



**Note:** The Suspend Mode selection in BIOS only applies to older Windows version (such as Windows 3.1 or Windows 95 or NT4) or non-Windows operating system. In Windows ME / 98SE / 2000 / XP, suspend mode and settings are determined by settings in the Power Options Properties (Start > Control Panel > Power Options).

## Exit Setup

Item	Selections / Sub-menu	Description
Saves Changes and Exit	N/A	After you have completed the BIOS settings, select this item to save all settings, exit BIOS Setup utility, and reboot. New system settings will take effect on next power-up. The F10 key can be used for this operation.
Discard Changes	N/A	Discards changes done so far to any of the setup questions.
Load Optimal Defaults	N/A	Load Optimal Default value for all the setup questions. The F9 key can be used for this operation.

# C H A P T E R T H R E E

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## BATTERY POWER & POWER MANAGEMENT

In this chapter, you will learn the fundamentals of power management and how to use it to achieve longer battery life.

In this chapter, you will learn how to operate your notebook on battery power, how to handle and maintain the battery pack, and learn about the system's power saving features.

The LCD display, CPU and hard disk drive are the major hardware components that consume the most power. Power management deals with how these key components should behave to conserve power. For example, you can have the system turn off its display after 2 minutes of inactivity to save power. Efficient power management can help you work longer sessions before having to recharge the battery.

## The Battery Pack

### Lithium-Ion Battery

Your notebook uses a six-cell Lithium-Ion battery pack that provides power when you don't have access to an AC outlet.



**Note:** It is necessary that you charge the battery pack for at least 6 hours before using it for the first time.

**Note:** In the Standby Suspend mode, a fully charged battery loses its power in roughly 1/2 day or less. When not being used, the battery's power will deplete in 1-2 month(s).

---

## Battery Low-Power Warning

### 1. Low Battery Warning

Low battery condition occurs when battery power is reduced to 6%. The red battery status LED indicator blinks and the system beeps once every 16 seconds or so.

### 2. Very Low Battery Warning

Very Low battery condition occurs at 3 % power remaining. The red battery status LED indicator blinks and the system beeps at 4-second intervals.

When the notebook warns you of its low battery condition, you will only have a few minutes to save your current work.



**Warning:** Do not expose battery packs to temperatures below 0 degree Celsius (32 degree F) or above 60 degree C (140F). This may adversely affect the battery pack.

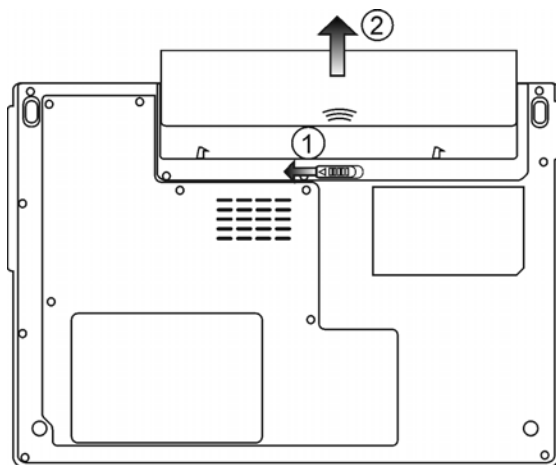
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## Installing and Removing the Battery Pack

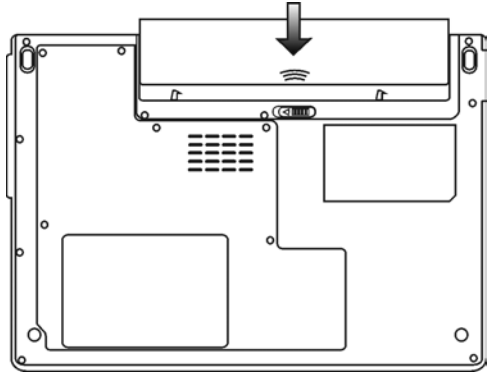
### To Remove the Battery Pack:

1. Place the notebook bottom-side up on a flat and secured surface.
2. Push the latch and pull the battery's hard case away from the notebook.



**To Install the Battery Pack:**

1. Place the notebook bottom-side up on a flat and secured surface.
2. Carefully insert the battery pack into the battery compartment of the notebook.

**Charging the Battery and Charging Time**

To charge the battery while it is in the notebook, plug the AC adapter into the notebook and an electrical outlet.

The charging time is approximately 4-6 hours when the notebook is turned off and approximately 6-10 hours when the notebook is turned on.

When the battery is fully charged, the battery charge indicator becomes green.



**Note:** If system runs at heavy loading or in a high temperature environment, the battery may not be fully charged. You need to continue to charge it with the AC adapter plugged in until the charging LED turns green.

---

## Checking the Battery Level

You can check the remaining battery power in the Windows battery status indicator, which is located at the lower right-hand corner of the task bar. (If you do not see a battery or AC-in icon on the task tray, go to Power Options Properties box and click on the Advanced tab. Check off ``Always show icon on the task bar``.)

Alternatively, you can access the power meter by clicking the Power Options icon in the Windows Control Panel.

## Prolonging the Battery's Life and Usage Cycles

There are ways you can prolong battery life.

- Use the AC adapter wherever an AC wall outlet is available. This will ensure uninterrupted computing.
- Purchase an additional battery pack.
- Store the battery pack in room temperature. Higher temperature tends to deplete the battery's power faster.
- Make good use of the power management function. Save To Disk (Hibernate) saves the most energy by storing current system contents in a hard disk space reserved for this function.
- The life expectancy of the battery is approximately 300 recharges.
- See the notices section in the beginning of the user manual on how to care for the battery pack.



**Note:** Read the Section about Protecting Your Notebook in the beginning of this manual for tips about how to maintain the battery pack.

**Note:** To achieve optimal battery performance, you may need to do a battery calibration at a 3-month interval. To do this:

1. Fully charge the battery.
2. Then discharge the battery by entering the BIOS setup screen. Press F2 key as soon as you turn on the computer. And let it remain at the setup screen until the battery runs out.
3. Fully charge the battery again.

## Using Windows Power Options

Windows Power Management provides basic power saving features. In the Windows Power Options Properties [Start > Settings > Control Panel > Performance and Maintenance > Power Options] dialogue box, you may enter time-out values for display and hard disk drive. Windows power manager saves power by turning off the hard drive after 1 minute of inactivity, for example.

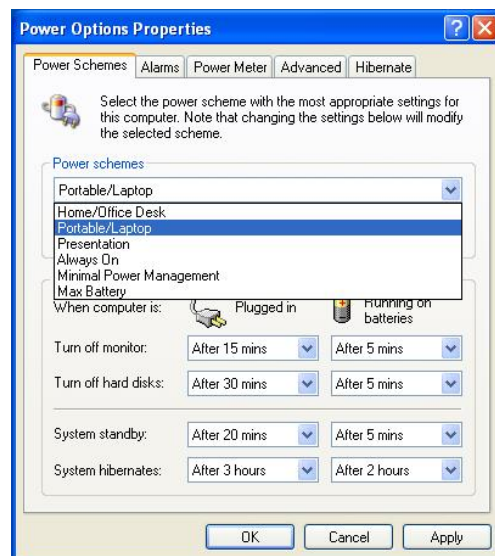
### Windows' Power Schemes

The power management control panel in Windows XP, known as Power Schemes, is designed to provide the user with an easy-to-use interface. The Power Schemes tab can be found in the Power Options Properties panel that is accessible via the control panel window.

Schemes are easy to understand, based on notebook usage scenarios, and control not only processor power usage but other system peripherals as well.

Go to [Start > Settings > Control Panel > Performance and Maintenance] and double-click the Power Options icon.

*Always on* mode puts the processor into maximum performance mode, which provides no power saving. The other schemes control processor performance based on demand. For example, *Max Battery* mode lowers the processor's speed and voltage to conserve power as much as possible.



In this dialog box, you can manually set the LCD and hard drive's time-out values in the "Plugged in" column and in the "Running on batteries" column. Lower time-out values will conserve battery power.



**Note:** Also consult Windows user guide for more information on how to use Windows power management functions.

**Note:** Actual dialogue box shown above may appear slightly different.

## Suspend Mode

### Standby Suspend

The system automatically enters this mode after a period of inactivity, which is set in the Power Schemes dialog box. In Standby mode, hardware devices, such as the display panel and hard disk, are turned off to conserve energy.

### Hibernate Suspend

In this mode, all system data is saved in the hard disk before powering down. When this mode is activated, the system state and contents are saved to the hard disk drive after a period of inactivity defined by the user. No power or very little power is drawn from the battery module under this mode.

However, depending on how much RAM that has been installed on your computer, the amount of time the system requires to restore all its previous contents can range from 5 to 20 seconds.

For Windows 2000 / XP users, hibernation is handled by the operating system; therefore, no special disk partition or disk file is necessary.

If you wish to activate Hibernate mode, you need enable Hibernate Support in the Hibernate tab of the Power Options menu.



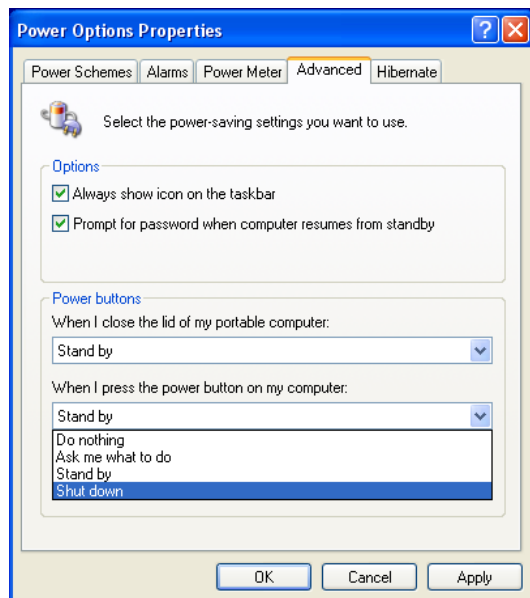
**Note:** Do not install or remove the memory module when the system is in the suspend mode.

**Note:** Actual dialogue box shown above may appear slightly different.

## Power Button Action

The notebook PC's power button can be set to turn off the system or activate the suspend mode.

Go to [Start > Settings > Control Panel > Performance and Maintenance > Power Options] and click on the Advanced tab. In the pull-down menu, select how you wish the power button to work as.



**Note:** Actual dialogue box shown above may appear slightly different.

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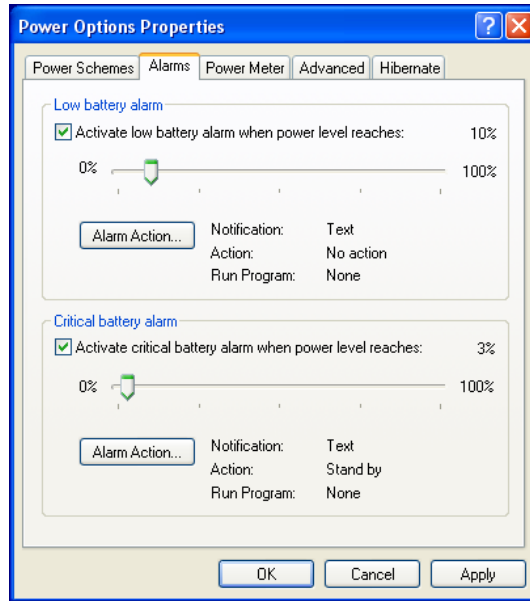
**Warning:** In the *When I close the lid of my portable computer* pull-down menu, DO NOT select *Do nothing* – otherwise the system will still run at high speed while the processor's fan grill is fully blocked by the closed LCD panel. The heat will damage the LCD panel.

---

## Low Battery Warning

You can define when and how the system warns you of its low battery condition.

Go to the Alarms tab in the Power Options Properties box. If you wish to hear audible beeps, click on the Alarm Action button and put a check on Sound Alarm.

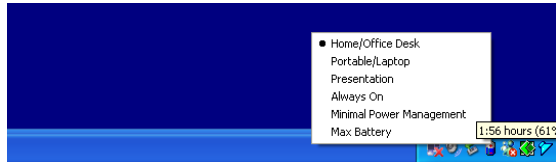


**Note:** Consult Windows user guide for more information on how to use Windows power management functions.

**Note:** Actual dialogue box shown above may appear slightly different.

## Power Menu Quick Access

Instead of making specific selections in the Power Options Properties box, you can quickly and easily specify which pre-set power saving function you desire by left clicking on the Battery icon at the lower right-hand corner of the task bar. (If you do not see a battery or AC-in icon, go to Power Options Properties box and click on the Advanced tab. Check off ``Always show icon on the task bar``.) Select Max Battery if you want the system to enter suspend mode more often. Or, select Always On if your notebook PC is plugged into an AC power source.



**Note:** Actual dialogue box shown above may appear slightly different.



# C H A P T E R F O U R

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## UPGRADING YOUR COMPUTER

In this chapter, you will learn how to upgrade the DRAM.



**Warning:** We strongly recommend that you send your notebook back to the manufacturer for upgrading. When you upgrade your system, please turn off the power, disconnect the LAN and Modem cable first for your safety. After the system upgrade, please replace all the screws before turning on.

---

## Upgrading the System Memory

Many applications will generally run faster when the computer's dynamic memory capacity is increased. The computer provides two DDR memory sockets. There is one located underneath the System Device Cover and another one located underneath the keyboard. You can increase the amount of memory by replacing the existing one with a dual inline memory module (commonly known as SO-DIMM) of a higher capacity. The SO-DIMM can be 256MB, or 512MB in capacity. The SO-DIMM is of type DDR1 has 200 pins and runs on 2.5V.



**Warning:** Memory upgrade is a delicate process. Please observe the following instructions carefully or have a qualified technician install it for you. Damages due to mishandling of this procedure are NOT covered by the manufacture's warranty.



**Warning:** Changing memory while your computer is in suspend or power-saving mode may cause permanent damage to the hardware. Make sure you turn off the power and unplug the AC cord before proceeding with a memory upgrade.



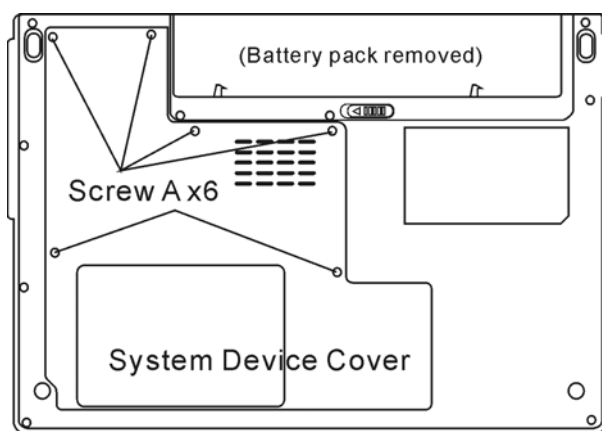
**Warning:** You should only use the DIMM module that is approved; otherwise the system may become unstable.

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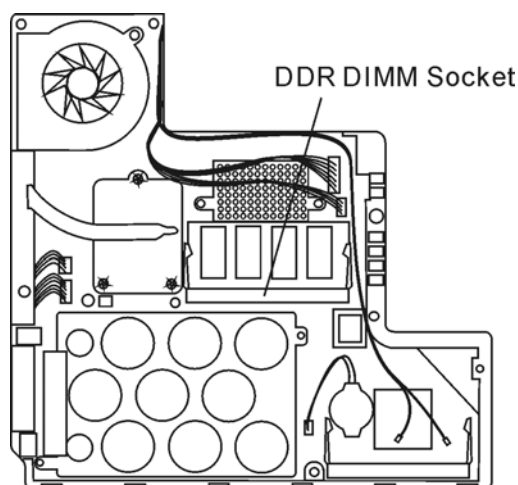
## Installing a memory module (DIMM) into the system

To install the DIMM under the System Device Cover, do the following:

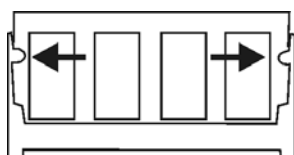
1. Power OFF the notebook. Unplug the AC cord and all cables/devices attached to the notebook. Remove the battery.
2. Place your hand on a large metal object momentarily to discharge any static electricity. Place the notebook on a flat surface and fully close the LCD lid.
3. Locate and remove 7 Screw A's on the System Device Cover.



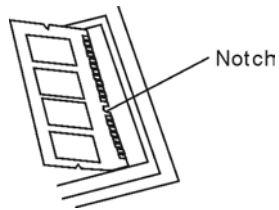
4. Remove the System Device Cover. The DIMM socket is now seen as shown below.



5. If you need to remove an old DIMM from the socket, press out on the latches located on both edges of the socket at the same time. The DIMM should pop up to an angle of 30 degree (see diagram below). Pull the DIMM module out of the memory socket. Store away the DIMM for future use.



6. Install the new DIMM module into the memory socket. The DIMM will only fit in one way. Insert the DIMM at an angle of approximately 30 degrees into the empty memory socket. Then press it firmly so that the contact edge is driven into the receiving socket.



7. Pivot the DIMM until the latches on both sides of the socket snap into place.



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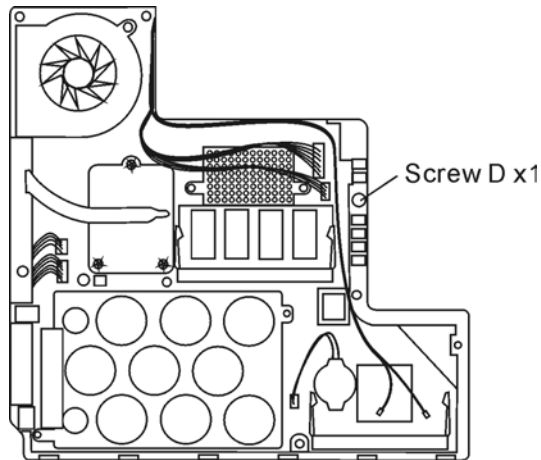
**Note:** Notice the notch on the DIMM. The notches should fit in the socket.

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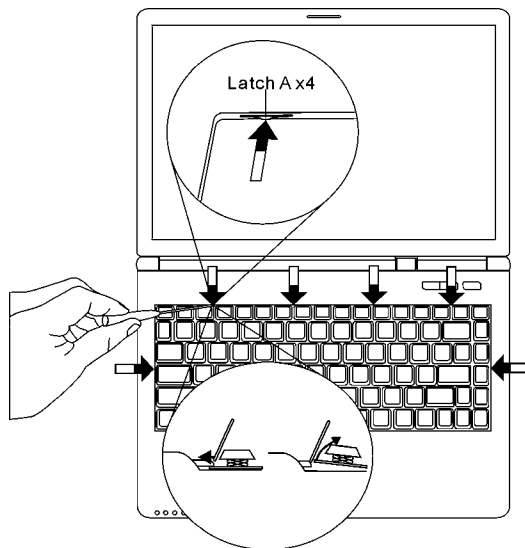
8. Replace the System Device Cover back and tighten 7 Screw A's.

To install the DIMM under the keyboard, do the following:

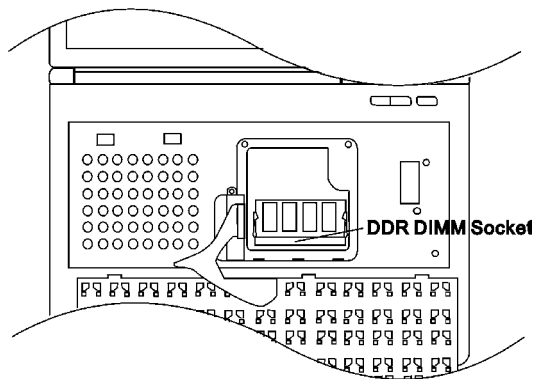
1. Power OFF the notebook. Unplug the AC cord and all cables/devices attached to the notebook. Remove the battery.
2. Place your hand on a large metal object momentarily to discharge any static electricity. Place the notebook on a flat surface and fully close the LCD lid.
3. Follow the Step 3 and Step 4 from the previous section and remove Screw D.



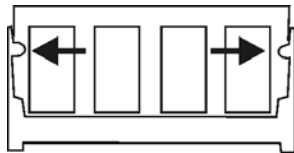
4. Find the keyboard latches near the upper edge and the side edges of the keyboard. The latch is spring-loaded. It will retract when pressed and revert back to its original position when released. Using a small blade to press the latch inward. The keyboard tray should pop up slightly over the latch. If the keyboard tray does not pop up, try to gently lift it up just over the latch. Repeat the step for the other keyboard latches.



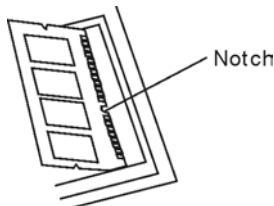
4. Carefully lift up the top edge and position the keyboard out of the way and the following is revealed.



5. If you need to remove an old DIMM from the socket, press out on the latches located on both edges of the socket at the same time. The DIMM should pop up to an angle of 30 degree (see diagram below). Pull the DIMM module out of the memory socket. Store away the DIMM for the future use.



6. Install the new DIMM module into the memory socket. The DIMM will only fit in one way. Insert the DIMM at an angle of approximately 30 degrees into the empty memory socket. Then press it firmly so that the contact edge is driven into the receiving socket.



7. Pivot the DIMM until the latches on both sides of the socket snap into place.



**Note:** Notice the notch on the DIMM. The notches should fit nicely with the socket.

8. Put the keyboard back to its position. Make sure the upper edge of the keyboard now resides under the spring-loaded latches. Re-attached Screw D. Put the System Device Cover back on and tighten 7 Screw A's.

Congratulations! You have just completed the memory upgrade. When you boot up the computer, you should expect to see an increase in DRAM capacity.



**Note:** Your computer has been tested with a wide range of DIMM on the market. However, not all memory modules are compatible. Check with your system vendor for a list of compatible DIMM for your computer.

# C H A P T E R F I V E

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## TROUBLE SHOOTING

In this chapter, you will learn how to solve common hardware and software problems.

Your computer has been fully tested and complies with the system specifications before shipping. However, incorrect operations and/or mishandling may cause problems.

This chapter provides a reference for identifying and correcting common hardware and software problems that you may encounter.

When you encounter a problem, you should first try to go through the recommendations in this chapter. Instead of returning the computer and waiting for repair, you may easily solve the problems by considering the following scenarios and possible solutions. If the error continues, contact your reseller for service information.

**Before taking further actions, consider the following suggestions:**

- Check to see if the problem persists when all the external devices are removed.
- Check to see that the green light indicator on the AC adapter is lit.
- Check to see the power cord is properly plugged to the wall outlet and to the computer.
- Check to see the power indicator of the computer is on.
- Check to see if your keyboard is operational by pressing and holding any key.
- Check for any incorrect or loose cable connections. Make sure the latches on the connectors latch securely on to the receptor end.
- Be sure you have not performed an incorrect setting on the hardware devices in the BIOS Setup utility. A faulty setting may cause the system to misbehave. If you are not sure of the changes you made, try to restore all the settings to factory defaults.
- Be sure all the device drivers are installed properly. For example, without the audio driver properly installed, the speakers and microphone will not work.
- If external devices such as USB camera, scanner or printer do not function correctly when connected to the system, it is usually the device's own problem. Consult the device's manufacturer first.
- Some software programs, which have not gone through rigorous coding and testing, may cause problems during your routine use. Consult the software vendor for problem solving.
- Legacy peripheral are not plug-and-play capable. You need to restart the system with these devices powered up and connected first.
- Be sure to go to BIOS SETUP and load DEFAULT SETTING after BIOS re-flash.
- Be sure the Quick Key Lockout Switch on the bottom of the computer is not engaged; otherwise the quick keys will not work.



## Audio Problems

### **No speaker output -**

- Software volume control is turned down in Microsoft Sound System or is muted. Double-click the speaker icon on the lower right corner of the taskbar to see if the speaker has been muted or turned down all the way.
- Most audio problems are software-related. If your computer worked before, chances are the software may have been set incorrectly.
- Go to [Start > Settings > Control Panel] and double-click the Sounds. Speech and Audio Devices icon. In the Sounds and Audio Devices Properties box, make sure that Realtek AC97 Audio is the default playback device.

### **Sound cannot be recorded -**

- You will need to plug-in an external microphone to the microphone connector to record sound.
- Double-click the speaker icon on the lower right corner of the taskbar to see if the microphone has been muted.
- Click Options and select Properties.
- Select Recording and click the OK button.
- After Click OK button, the recording volume control panel will appear.
- Go to [Start > Settings > Control Panel > Sounds. Speech and Audio Devices] and double-click the Sounds and Audio Devices icon. In the Volume or Audio page, make sure that Realtek AC97 Audio is the default recording device.

## Hard Disk Problems

### **The hard disk drive does not work or is not recognizable -**

- Check the hard disk indicator LED. When you access a file, the LED lamp should light up momentarily.
- The HDD may be defective.
- If your computer has been subjected to static electricity or physical shock, you may have damaged the disk drive.

### **The hard drive is making abnormal whining noises -**

- You should back up your files as soon as possible.
- Make sure the source of noise is indeed from the hard drive and not the fan or other devices.

### **The hard disk drive has reached its capacity -**

- Run Disk Cleanup utility in Windows. [Start > All Programs > Accessories > System Tools > Disk Cleanup] The system will prompt you for what to do.
- Archive files or programs that you no longer use by moving them to an alternative storage medium (optical record-able disk, etc.) or uninstall programs that are no longer used.
- Many browsers store files in the hard drive as a cache to speed up the performance. Check the program's Online Help for instructions on decreasing the cache size or on removing temporary Internet files.
- Empty the Recycle Bin to create more disk space. When you delete files, Windows saves them to the Recycle Bin.

### **The hard disk takes longer to read a file -**

- If you have been using the drive for a period, the files may be fragmented. Go to [Start > All Programs > Accessories > System Tools > Disk Defragmenter] to perform a disk defragmentation. This operation may take a while.
- Interrupted requests or problems with other hardware devices may have occupied the CPU and therefore slowing down the system performance.

### **The files are corrupted -**

- Run the Error-checking utility in Windows to check the HDD. Double-click My Computer. Right-click C: and select Properties. Click Check Now in Error-checking in Tools.

## Optical Drive Problems

### **The optical drive does not work -**

- Try rebooting the system.
- The disk is damaged or files are not readable.
- After you have inserted a CD-ROM disk, it may take a moment before you can access its content.

### **The drive does not read any disks -**

- The CD may not be properly seated in the tray. Make sure the disk is firmly seated onto the spindle.
- The disk is damaged or not readable.

### **The disk cannot be ejected -**

- Normally, it takes a few seconds to eject the disk.
- If the disk cannot be ejected, it may be mechanically jammed. Straighten out a paper clip and insert it into the tiny hole next to the eject button. This should eject the disk tray. If not, return the unit for repair. Do not forcefully pull on the disk tray.

### **The DVD RW drive cannot record -**

- Make sure that media is blank and not defective.

## Display Problems

### **The display panel is blank when the system is turned on -**

- Make sure the computer is not in the Standby or Hibernate suspend modes. The display is turned off to conserve energy in these modes.

### **The screen is difficult to read -**

- The display resolution should at least be set to at least 1280x800 for optimal viewing.
- Go to [Start > Settings > Control Panel > Appearance and Themes] and double-click the Display icon.
- Under the Settings page, set screen resolution to at least 1280x800 and choose at least 256 colors.

### **The screen flickers -**

- It is normal if the display flickers a few times when shutting down or powering up.

## Keyboard and Mouse Problems

### **The built-in touch pad performs erratically -**

- Make sure there is no excess perspiration or humidity on your hand when using the touch pad. Keep the surface of the touch pad clean and dry.
- Do not rest your palm or wrist on the surface of the touch pad while typing or using the touch pad.

### **The built-in keyboard accepts no input -**

- If you are connecting an external keyboard to the system, the built-in keyboard may not work.
- Try restarting the system.

### **The characters on the screen repeat while I type.**

- You may be holding the keys down too long while you're typing.
- Keep the keyboard clean. Dust and dirt under the keys could cause them to stick.
- Configure the keyboard to wait longer before the auto repeat feature starts. To adjust this feature, Go to [Start > Settings > Control Panel > Printers and Other Hardware], and double-click the Keyboard icon. A dialogue box shows up with the adjustable settings for the keyboard.

## CMOS Battery Problem

**A message “CMOS Checksum Failure” displays during the booting process or the time (clock) resets when booting -**

- Try to reboot the system.
- If the message “CMOS Checksum Failure” appears during the booting procedure even after rebooting, it may indicate failure of the CMOS battery. If so, you need to replace the battery. This battery normally lasts two to five years. The battery is a type CR2032 (3V). You may replace it by yourself. The battery is located under the System Device Cover on the bottom of the notebook. See Chapter 4 for more details.

## Memory Problems

**The Operating System does not show an increased memory capacity when you have already installed additional memory -**

- Certain brands of memory module may not be compatible with your system. You should ask your vendor for a list of compatible DIMM.
- The memory module may not be installed properly. Go back to Chapter 4 to review the details of this operation.
- The memory module may be defective.

**The Operating System issues an insufficient memory error message during operation -**

- This is often a software or Windows-related problem. A program is draining the memory resources.
- Close the application programs you're not using and restart the system.
- You need to install an additional memory module. For instructions, go to Chapter 4 Upgrading Your Computer.

## Modem Problems

### **The built-in modem does not respond -**

- Make sure the modem driver is loaded properly.
- Go to [Start > Settings > Control Panel > Printers and Other Hardware > Phone and Modem Options] and go to Modems tab. Make sure the 56K V.92 Modem is listed. Otherwise, click the Add button to add the modem drive, which is located in the factory CD-ROM (or floppy diskette).
- Go to [Start > Settings > Control Panel > Performance and Maintenance > System] and click Device Manager button in the Hardware page to check for possible resource or driver conflict. See Windows on-line help or manual for how to handle such problems.
- Make sure the phone line, which the computer is connected to, is working.

### **Connection difficulties -**

- Be sure to disable Call Waiting on the phone line.
- Be sure to have the correct country setting where your computer is used. [Start > Settings > Control Panel > Printers and Other Hardware > Phone and Modem Options] In the Country/Area pull-down menu, select the appropriate country setting.
- Excessive line noise might cause the connection to be dropped. To check this, put the regular phone handset on the line and place a phone call. If you do hear abnormal noise, try to make the modem connection with a different line or contact your local telephony company for service.
- Make sure the cable connection is firm.
- Try a different receiver number and see if the problem persists.

## Network Adapter / Ethernet Problems

### **The Ethernet adapter does not work -**

- Go to [Start > Settings > Control Panel > Performance and Maintenance > System > Hardware > Device Manager]. Double-click on Network Adapters and check if Realtek RTL8201CL Family Fast Ethernet NIC appears as one of the adapters. If it does not exist, Windows has not detected the Realtek RTL8201CL Family Fast Ethernet NIC or the device driver has not been installed properly. If there is a yellow mark or red-cross on the network adapter, it may be a device or resource conflict. Replace or update the device driver from the factory CD-ROM disk or consult Windows manual on how to solve the resource conflict problem.
- Make sure the physical connections on both ends of the cable are good.
- The hub or concentrator may not be working properly. Check to see if other workstations connected to the same hub or concentrator are working.

### **The Ethernet adapter does not appear to operate in the 100Mbps transmission mode -**

- Make sure the hub you are using supports 100Mbps operation.
- Make sure that your RJ-45 cable meets the 100Base-TX requirements.
- Make sure the Ethernet cable is connected to the hub socket that supports 100Base-TX mode. The hub may have both 100Base-TX and 100Base-T sockets.

## PC Card / PCMCIA Problems

### **PC Cards do not function-**

- Make sure you have properly installed the driver for the card.
- Consult the card's manual or contact the vendor for trouble-shooting.

### **The PC card cannot be recognized -**

- Make sure the card is fully inserted; the outer end of the card should be even with the edge of the computer.
- Remove and insert the PC card again.
- Reboot the computer and see if the problem persists.
- The card may be defective. Try the card on another system, if possible.

### **Windows crashes or freezes when you remove the PC card-**

- Make sure you <Stop> the PC card before removing it. Double-click the Safely Remove Hardware icon at the lower right corner of the task bar and select the card you wish to stop. When you click <Close>, in a few seconds Windows will prompt you to remove the card.

## Performance Problems

### **The computer becomes hot -**

- In a 35°C environment, certain areas of the computer's back case are expected to reach 50 degrees.
- Make sure the air vents are not blocked.
- If the fan does not seem to be working at high temperatures (50 degrees Celsius and up), contact the service center.
- Certain programs that are processor-intensive may increase the computer temperature to a degree where the computer automatically slows down its CPU clock to protect itself from thermal damage.

### **The program appears stopped or runs very slowly -**

- Press CTRL+ALT+DEL to see if an application is still responding.
- Restart the computer.
- This may be normal for Windows when it is processing other CPU-intensive programs in the background or when the system is accessing slow-speed devices such the floppy disk drive.
- You may be running too many applications. Try to close some applications or increase system memory for higher performance.
- The processor may have overheated due to the system's inability to regulate its internal heat. Make sure the computer's ventilation grills are not blocked.

## FireWire (IEEE1394) and USB 2.0 Problems

### **The USB device does not work -**

- Check the settings in the Windows Control Panel.
- Make sure you have installed the necessary device drivers.
- Contact the device vendor for additional support.

### **The IEEE1394 port does not work -**

- Go to [Start > Settings > Control Panel > Performance and Maintenance > System > Hardware > Device Manager]. You should see an entry which reads “Texas Instrument OHCI Compliant IEEE 1394 Host Controllers”. If it does not exist, Windows has not detected the host controller or the device driver has not been installed properly. If there is a yellow mark or red-cross on the 1394 host controller, it may be a device or resource conflict. Replace or update the device driver from the factory CD-ROM disk or consult the Windows manual on how to solve the resource conflict problem.
- Make sure the cable is fully connected.
- Make sure you have installed the necessary device drivers.
- Contact the device vendor for additional support.



**A P P E N D I X A**

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## **PRODUCT SPECIFICATION**

■ Processor

## Processor and Core Logic

Mobile AMD Turion or Sempron, 25W Low Power

■ Core Logic

Integrated chipset with video, audio, modem and USB 2.0 controllers.  
Integrated 333 / 400 MHz DDR1 interface

■ Memory Type

## System Memory

■ Default

DDR SDRAM 333MHz, PC2700

■ Memory  
Expansion

256 / 512MB, 2.5-Volt 64-bit bus

Two 200-pin DIMM sockets, Max 1 GB

■ LCD Panel

## Display

13.3-inch (1280x800) WXGA TFT display with 24-bit colors

■ Graphic  
Accelerator

Integrated 256-bit 3D Graphics engine

■ Motion  
Playback

Hardware Motion Compensation and IDCT Supported for MPEG1/2 Playback  
DirectX compatible

■ Other  
Features

Integrated with graphics accelerator

■ S-Video

TV-out Encoder

- Chipset
- Audio Codec
- Sound Capabilities

## Audio

Integrated audio controller

DirectSound 3D, EAX 1.0 & 2.0 compatible  
 A3D, I3DL2 compatible  
 AC97 compatible  
 7.1 Multi-channel compatible (through S/PDIF)  
 2 Stereo Speakers

- Chipset
- Transmission Rate

## Modem

Integrated Modem Controller with MDC card, AC97 V2.2 Modem support  
 V.92 / V.90 / K56flex for download data speed up to 56Kbps.  
 V.34, V.17, V.29 protocol supported

- Module
- Transmission Protocol

## Wireless LAN

Mini-PCI Interface IEEE802.11 B&G

- Chipset
- PnP Function
- Flow Control
- Speed Selection
- Other Features

## LAN / Ethernet

Ethernet function for 10/100Base-TX network standards  
 Windows 2000 / XP Plug and Play compatible  
 Automatic Jam and auto-negotiation for flow control  
 Auto Negotiation and Parallel detection for automatic speed selection (IEEE 802.3u)  
 High performance 32-bit PCI bus master architecture with integrated DMA controller for low CPU and bus utilization  
 Remote Wake-up Scheme supported  
 Hot Insertion supported

- Chipset
- Capabilities

### FireWire IEEE1394(a)

TI TSB43AB22A IEEE1394 OHCI Host Controller and  
Up to 400 Mbps  
Expandable up to 63 devices in chains

- Hard Drive
- DVD±R/±RW  
or Combo  
DVD+CD-RW

### Storage

2.5-inch format hard disk drive

5.25-inch format (12.7mm height) fixed module

- Keyboard
- Touch pad

### Keyboard & Touch pad

86-key QWERTY keyboard with embedded numeric keypad and Windows keys, 19.05mm Pitch

Built-in Touch Pad

- PC Card
- 4-in-1 Card  
Reader Format  
Support

### PC Card & Multiple Card Reader

PC Card TYPE II, Hot insertion and removal supported

Multimedia Card (MMC), Secure Digital Card (SD), Memory Stick (MS), Memory Stick Pro (MS Pro)

- Mic-In Port
- Audio-Out/SPDIF
- FireWire
- USB 2.0 Port
- Ethernet
- Modem
- S-Video
- Power-In
- VGA Port
- Card Reader
- PC Card Slot

### Ports and Connectors

One Microphone-in jack

One Headphone

One FireWire (IEEE1394) host connector

Three USB 2.0-compliant connectors

One standard network Ethernet connector (RJ-45)

One modem / phone connector (RJ11)

One S-video (TV-out) output connector

One DC-in connector

One 15-pin VGA connector

One 4-in-1 Card Reader slot

One PC Card Slot (type II)

■ Primary  
Battery Pack

■ Feature

■ Adapter  
AC-Input /  
DC-Output

## Battery Pack / AC Adapter

Li-Ion 6-Cell pack, 11.1V x 4400 mAh

Low battery state with low battery warning beep  
SmartPower II Power Management  
Smart Battery Compliant; low battery warning beep  
Long Battery Life Mode and Silent Mode

Auto sensing AC-in 100~240V, DC-out 19V, 65W

■ PnP Function  
■ Self Test  
■ Auto  
Detection

■ Power  
Management  
■ Security  
■ Other  
Features

## BIOS

Plug N Play BIOS  
Power On Self-Test  
DRAM auto-detection, auto-sizing  
L2 Cache auto-detection  
Hard disk type auto-detection  
APM 1.2 (Advanced Power Management) &  
ACPI 2.0 (Advanced Configuration Power Interface)  
Two Level Password Protections  
32-bit access, Ultra DMA, PIO5 Mode support  
Multi-boot capability

■ O/S

Compatible with Microsoft Windows 2000 / XP / DOS

■ Dimension  
■ Weight

■ Environmental  
Limits

## Physical Specification

12.44" (W) x 8.81" (D) x 1.25~1.35" (H) Inches  
~4.6 lbs. (LCD, Optical Drive and 6-cell battery pack)

Operating Temperature: 5 to 30°C (41 to 86°F)  
Operating Humidity: 20 to 80 percent RH (5 to 35°C)  
Storage Temperature: -15 to 50°C (-5 to 122°F)

**A P P E N D I X B**

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## **AGENCY REGULATORY NOTICES**

### **Federal Communications Commission Notice**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

### **Modifications**

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by the Manufacturer may void the user's authority to operate the equipment.

### **Connections to Peripheral Devices**

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

### **Declaration of Conformity**

This device complies with Part 15( CLASS B)/68 the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **European Notice**

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) and R&TTE Directive (1999/5/EC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022 : 1998+A1: 2000+A2: 2003, CLASS B
- EN61000-3-2 : 2000
- EN61000-3-3 : 1995+A1: 2001
- EN55024 : 1998+A1 : 2001+A1: 2003
- IEC61000-4-2: 2001
- IEC61000-4-3:2002+A1:2002
- IEC61000-4-4:1995+A1:2000+A2:2001
- IEC61000-4-5:2001
- IEC61000-4-6:2001
- IEC61000-4-8:2001
- IEC61000-4-11:2001
- EN50082 (IEC801-2, IEC801-3, IEC801-4) Electro-magnetic Immunity
- EN 300 328-2, EN 300 328-1, EN 301 489-1, EN 301 489-17 (ETSI 300 328, ETSI 301 489) Electro-magnetic Compatibility and Radio Spectrum Matter.
- TBR21 ( ETSI TBR21) Terminal Equipment.
- EN60950 (IEC60950) I.T.E. Product Safety

### **Canadian Notice**

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le present appareil numerique nemet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de Classe B prescrites dans le reglement sur le brouillage radioelectrique edicte par le Ministere des Communications du Canada.

### **Power Cord Requirement**

The power cord supplied with the AC adapter should match the plug and voltage requirements for your local area. Regulatory approval for the AC adapter has been obtained using the power cord for the local area. However, if you travel to a different area and need to connect to a different outlet or voltage, you should use one

of the power cords listed below. To purchase a power cord (including one for a country not listed below) or a replacement ac adapter, contact your local dealer.

### U.S. and Canada

- The cord set must be UL-Listed and CSA-Certified or C-UL Listed.
- The minimum specifications for the flexible cord are (1) No. 18 AWG, (2) Type SJ, and (3) 3-conductor.
- The cord set must have a rated current capacity of at least 10 A.
- The attachment plug must be an earth-grounding type with a NEMA 5-15P (15A, 125V) or NEMA 6-15P (15 A, 250V) configuration.

### Japan

- All components of the cord set (cord, connector, and plug) must bear a 'PSE' mark and registration number in accordance with the Japanese Dentori Law.
- The minimum specification for the flexible cord are: (1) 0.75 mm<sup>2</sup> conductors, (2) Type VCT or VCTF, and (3) 3-conductor.
- The cord set must have minimum rated current capacity of 7 A.
- The attachment plug must be a two-pole, grounded type with a Japanese Industrial Standard C8303 (15 A, 125 VAC) configuration.

### Other Countries

- The cord set fittings must bear the certification mark of the agency responsible for evaluation in a specific country. Acceptable agencies are:
  - BSI (UK)
  - OVE (Australia)
  - CEBEC (Belgium)
  - SEMKO (Sweden)
  - FIMKO (Finland)
  - DEMKO (Denmark)
  - NEMKO (Norway)
  - SETI (Finland)
  - EANSW (Australia)
  - SEV (Switzerland)
  - IMQ (Italy)
  - UTE (France)
  - CCC (China)
  - PSB (Singapore)
  - PSE (Japan)
  - BSMI (Taiwan)
  - B (Polish)
  - VDE (Germany)
  - SASO (Saudi Arabia)
- The flexible cord must be of a HAR (harmonized) type HO5VV-F 3-conductor cord with a minimum conductor size of 0.03 square inches.
- The minimum specification for the flexible cord for Class II product are: (1) 2X0.75 mm<sup>2</sup> conductors, (2) 2-conductor cord.
- The cord set must have a current capacity of at least 10 A and a nominal voltage rating of 125 / 250 VAC.

**CAUTION: THIS MODEL IS DESIGNED TO USE WITH THE FOLLOWING AC ADAPTER MODEL ONLY**

Manufacturer: LITE-ON ELECTRONICS, INC

Model: PA-1650-01 (65W)

### Telephone lines requirement

- The appropriate utilization of 26AWG telephone line cord on unit.
- CAUTION: Always disconnect all telephone lines from the wall outlet before servicing or disassembling this equipment.
- CAUTION: To reduce the risk of fire, use only No. 26AWG or larger telecommunication line cord.

### Battery Pack Safety

- The battery pack is intended to use only with this notebook.



- Do not disassemble the pack.
- Do not dispose of the battery pack in fire or water.
- To avoid risk of fire, burns, or damage to your battery pack, do not allow a metal object to touch the battery contacts.
- Handle a damaged or leaking battery with extreme care. If you come in contact with the electrolyte, wash the exposed area with soap and water. If it contacts the eye, flush the eye with water for 15 minutes and seek medical attention.
- Do not charge the battery pack if the ambient temperature exceeds 45°C (113°F).
- To obtain a replacement battery, contact your local dealer.
- Do not expose the battery pack to high storage temperatures (above 60°C, 140°F).
- When discarding a battery pack, contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries.
- Use only supplied AC Adapter for charging.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions or local laws.

VORSICHT! Explosionsgefahr bei unsachgemäßen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenen ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

#### Laser Safety

The optical drive used with this computer is certified as a Class 1 laser device according to the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard and International Standards IEC 825 / IEC 825-1 (EN60825 / EN60825-1). The device is not considered harmful, but the following precautions are recommended:

- Do not open the unit.
- Avoid direct exposure to the laser beam.
- If the unit requires service, contact an authorized service center.
- Ensure proper use by reading and following the instructions carefully.
- Do not attempt to make any adjustment of the unit.

CLASS 1 LASER PRODUCT

APPAREIL A LASER DE CLASSE 1

LASERSCHUTZKLASSE 1 PRODUKT

#### Warning!

Do not attempt to disassemble the cabinet containing the laser. The laser beam used in this product is harmful to the eyes. The use of optical instruments, such as magnifying lenses, with this product increase the potential hazard to your eyes. For your safety, have this equipment serviced only by an authorized service provider.

#### Lithium battery warning / Bridge battery warning

This computer contains a lithium battery to power the clock and calendar circuitry.

CAUTION: Danger of explosion if battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

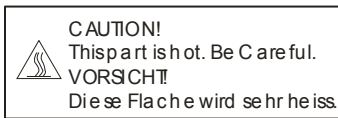
ATTENTION: Il y a danger d'explosion s'il y a un remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

VORSICHT! Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenen ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

Der Arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 beträgt 70dB (A) oder weniger.

Zum Netzanschlus dieses Gerates ist eine geprüfte Leitung zu verwenden. Für einen Nennstrom bis 6A und einem Gerategewicht größer 3kg ist eine Leitung nicht leichter als (1)H05VV-F, 3G, 0.75mm<sup>2</sup> (2)2X0.75 mm<sup>2</sup> conductors einzusetzen.

**Die Steckdose muß nahe dem Gerät angebracht und leicht zugänglich sein.**



When you see this symbol, be careful as this spot may be very hot.

## 1-YEAR LIMITED WARRANTY

### Applicable to new AVERATEC Notebooks

The limited warranty set forth on this warranty card is provided by AVERATEC, Inc. with respect to the AVERATEC brand notebook computer that you have purchased ("Portable Computer"), when purchased and used in the United States and Canada with service available in the original country of purchase. The Portable Computer that you have purchased is the only AVERATEC brand computer to which this warranty card and the limited warranty stated herein apply.

Your Portable Computer, when purchased in a new condition, is warranted against defects for one (1) year from the date of purchase, except the notebook battery. A six (6) month limited warranty is provided for notebook batteries. The warranty period will not be extended or altered for any time it is returned for warranty repair.

Defective parts or a defective Portable Computer returned to AVERATEC and proven to be defective upon inspection will be repaired or exchanged for comparable parts or a comparable Portable Computer configured to the original specifications. AVERATEC will use new or remanufactured replacement parts to restore the unit to working condition. Replacement parts are warranted to be free from defects in materials and labor for 90 days from the date of repair or the remainder of the manufacturer's warranty, whichever is longer. The laptop is also warranted against any damages that may occur during shipping back to you after repair. Please remove any hardware upgrades from the unit prior to shipping and restore the laptop to the condition it was in as new, as any parts removed from your computer are the property of AVERATEC and will not be returned to the customer. The customer is responsible for shipping charges incurred upon sending the unit in for service to AVERATEC. AVERATEC is responsible for shipping charges incurred returning the unit to the customer if the customer does not specify a change in the carrier's service level. If a change in service level or carrier is requested, the customer is responsible for any incurred shipping charges upon return of the unit. Uninterrupted usage is not guaranteed by this warranty.

**KEEP A COPY OF YOUR ORIGINAL STORE RECEIPT.** Warranty service may require that the proof of purchase be provided to AVERATEC.

This limited warranty shall only apply if the Portable Computer is used in conjunction with compatible peripheral equipment and compatible software. Compatibility testing is the province of the 3<sup>rd</sup> party hardware and software manufacturers. This limited warranty covers all defects encountered in normal use of the Portable Computer, and does not apply in the following cases:

- (1) Loss of or damage to, or inability to use, the Portable Computer in whole or in part due to abuse, mishandling, improper packaging by you, alteration, accident, electrical current fluctuations, software

bugs or viruses, failure to follow operating, maintenance or environmental instructions prescribed in AVERATEC'S user's manual, or service performed by other than AVERATEC.

- (2) Defects resulting from software, interfacing, parts or supplies not supplied by AVERATEC which cause damage to the Portable Computer or cause abnormally frequent service calls or service problems.
- (3) If the Portable Computer has had its serial number or dating purposefully altered or removed.

**PLEASE MAKE BACKUPS OF ANY AND ALL DATA THAT YOU WISH TO SAVE, AS AVERATEC IS NOT RESPONSIBLE NOR LIABLE IN ANY WAY FOR THE USER'S PERSONAL DATA ON THE UNIT, OR LOSS THEREOF, AND IS NOT ABLE TO ASSIST IN BACKUP OR DATA RECOVERY.**

**IN NO EVENT SHALL RECOVERY OF ANY KIND AGAINST AVERATEC BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PORTABLE COMPUTER SOLD BY AVERATEC CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK AND LIABILITY FOR LOSS, DAMAGE, OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE OR MISUSE OF, OR INABILITY TO USE, THE PORTABLE COMPUTER NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF AVERATEC.**

**NO IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLIES TO THE PORTABLE COMPUTER AFTER THE APPLICABLE PERIOD OF THE EXPRESS LIMITED WARRANTY STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY, EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON OR ENTITY WITH RESPECT TO THE PORTABLE COMPUTER SHALL BIND AVERATEC. AVERATEC SHALL NOT BE LIABLE FOR LOSS OF REVENUES OR PROFITS, EXPENSES FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, LOSS OR MISUSE OF, OR INABILITY TO USE, THE PORTABLE COMPUTER, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF AVERATEC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

This limited warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state. Any and all data in this document is subject to change without notice.

## **SIX MONTH LIMITED WARRANTY**

### **Applicable to new AVERATEC Batteries**

The limited warranty set forth on this warranty card is provided by AVERATEC, Inc. with respect to the AVERATEC brand Battery that you have purchased, when purchased and used with a AVERATEC brand notebook computer. The Battery that you have purchased is the only AVERATEC brand product to which this warranty card and the limited warranty stated herein apply.

Your Battery, when purchased in a new condition, is warranted against defects for six (6) months from the date of purchase. The warranty period will not be extended or altered for any time for any time during which it is in for warranty repair.

A defective Battery returned to AVERATEC and proven to be defective upon inspection will be repaired or exchanged for a comparable part.

KEEP A COPY OF YOUR ORIGINAL STORE RECEIPT. Warranty service will only be provided upon proof of purchase provided to AVERATEC.

This limited warranty shall only apply if the Battery is used in conjunction with compatible peripheral equipment and compatible software. This limited warranty covers all defects encountered in normal use of the Accessory, and does not apply in the following cases:

- (1) Loss of or damage to, or inability to use, the Battery in whole or in part due to abuse, mishandling, improper packaging by you, alteration, accident, electrical current fluctuations, software bugs or viruses, failure to follow operating, maintenance or environmental instructions prescribed in AVERATEC'S user's manual, or service performed by other than AVERATEC.
- (2) Defects resulting from software, interfacing, parts or supplies not supplied by AVERATEC which cause damage to the Battery or cause abnormally frequent service calls or service problems.
- (3) If the Battery has had its serial number or dating altered or removed.

**NO IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLIES TO THE BATTERY AFTER THE APPLICABLE PERIOD OF THE EXPRESS LIMITED WARRANTY STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY, EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON OR ENTITY WITH RESPECT TO THE BATTERY SHALL BIND AVERATEC. AVERATEC SHALL NOT BE LIABLE FOR LOSS OF REVENUES OR PROFITS, EXPENSES FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, LOSS OR MISUSE OF, OR INABILITY TO USE, THE BATTERY, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF AVERATEC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL RECOVERY OF ANY KIND AGAINST AVERATEC BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE BATTERY SOLD BY AVERATEC AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK AND LIABILITY FOR LOSS, DAMAGE, OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE OR MISUSE OF, OR INABILITY TO USE, THE BATTERY NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF AVERATEC. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THE BATTERY, OR THE PERSON FOR WHOM IT WAS PURCHASED AS A GIFT, AND STATES YOUR EXCLUSIVE REMEDY.**

This limited warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.

**Additional Information Available at:**

**PHONE:** (877) 462-3462

**WEB:** [www.averatec.com](http://www.averatec.com)

## **1-YEAR LIMITED WARRANTY**

### **Applicable to new AVERATEC Accessories**

The limited warranty set forth on this warranty card is provided by AVERATEC, Inc. with respect to the AVERATEC brand Accessory that you have purchased, when purchased and used with a AVERATEC brand notebook computer. The accessory that you have purchased is the only AVERATEC brand product to which this warranty card and the limited warranty stated herein apply.

Your Accessory, when purchased in a new condition, is warranted against defects for one (1) year from the date of purchase. The warranty period will not be extended or altered for any time for any time during which it is in for warranty repair.

A defective Accessory returned to AVERATEC and proven to be defective upon inspection will be repaired or exchanged for comparable part.

KEEP A COPY OF YOUR ORIGINAL STORE RECEIPT. Warranty service will only be provided upon proof of purchase provided to AVERATEC.

This limited warranty shall only apply if the Accessory is used in conjunction with compatible peripheral equipment and compatible software. This limited warranty covers all defects encountered in normal use of the Accessory, and does not apply in the following cases:

- (1) Loss of or damage to, or inability to use, the Accessory in whole or in part due to abuse, mishandling, improper packaging by you, alteration, accident, electrical current fluctuations, software bugs or viruses, failure to follow operating, maintenance or environmental instructions prescribed in AVERATEC'S user's manual, or service performed by other than AVERATEC.
- (2) Defects resulting from software, interfacing, parts or supplies not supplied by AVERATEC which cause damage to the Accessory or cause abnormally frequent service calls or service problems.
- (3) If the Accessory has had its serial number or dating altered or removed.

**NO IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLIES TO THE ACCESSORY AFTER THE APPLICABLE PERIOD OF THE EXPRESS LIMITED WARRANTY STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY, EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON OR ENTITY WITH RESPECT TO THE ACCESSORY SHALL BIND AVERATEC. AVERATEC SHALL NOT BE LIABLE FOR LOSS OF REVENUES OR PROFITS, EXPENSES FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, LOSS OR MISUSE OF, OR INABILITY TO USE, THE ACCESSORY, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF AVERATEC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL RECOVERY OF ANY KIND AGAINST AVERATEC BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE ACCESSORY SOLD BY AVERATEC AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK AND LIABILITY FOR LOSS, DAMAGE, OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE OR MISUSE OF, OR INABILITY TO USE, THE ACCESSORY NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF AVERATEC. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THE ACCESSORY, OR THE PERSON FOR WHOM IT WAS PURCHASED AS A GIFT, AND STATES YOUR EXCLUSIVE REMEDY.**

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